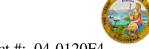
#### **DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Yes

No

N/A

Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 1.28

# WELDING INSPECTION REPORT

Resident Engineer: Casey, William **Report No:** WIR-028592 Address: 333 Burma Road **Date Inspected:** 11-Oct-2012

City: Oakland, CA 94607

**OSM Arrival Time:** 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1730 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: American Bridge/Fluor Enterprises, a JV **Location:** Job Site

**CWI Name: CWI Present:** Yes No As noted below **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No **Weld Procedures Followed:** Yes No N/A **Qualified Welders:** Yes No N/A **Verified Joint Fit-up:** Yes No N/A N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** 

**Delayed / Cancelled:** 

34-0006 **Bridge No: Component: SAS OBG** 

#### **Summary of Items Observed:**

Quality Assurance Inspector (QA) Douglas Frey was at the American Bridge/Fluor (ABF) job site at Yerba Buena Island in California between the times noted above in order to monitor Quality Control functions and the in process work being performed by ABF personnel. The following items were observed:

This QA observed the following welders working in OBG 12E at various locations:

ABF welder Wai Kit Lai #2953 was observed performing weld repairs on weld 12E-E2.1 on the exterior of the OBG at y=920mm with the dimensions of the excavation as; 170L/21W/10D. The Welder was observed utilizing Caltrans approved Welding Procedure Specification's (WPS) ABF-WPS-D15-1000R Rev.2 for Shielded Metal Arc Welding (SMAW). The welder was observed preheating the welds prior to Carbon Arc Gouging (CAG) and welding. Other welding parameters as inspected by the QC Inspector appear to be in compliance with the WPS noted above.

ABF welder Xiao Hua Luo #1291 was observed performing ongoing weld repairs on weld 12E PP116 E2.1-BW1. The Welder was observed utilizing Caltrans approved Welding Procedure Specification's (WPS) ABF-WPS-D15-1000R Rev.2 for Shielded Metal Arc Welding (SMAW). The welder was observed preheating the welds prior to welding. Other welding parameters as inspected by the QC Inspector appear to be in compliance with the WPS noted above.

ABF welder James Zhen #6001 was observed performing ongoing weld repairs on weld 12E PP115.5 E2.1-BW1. The Welder was observed utilizing Caltrans approved Welding Procedure Specification's (WPS)

# WELDING INSPECTION REPORT

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ABF-WPS-D15-1000R Rev.2 for Shielded Metal Arc Welding (SMAW). The welder was observed preheating the welds prior to welding. Other welding parameters as inspected by QC Inspector appear to be in compliance with the WPS noted above.

ABF welder Richard Garcia #5892 was observed performing welding on the Façade Seals at elevation 112M on the Tower. The Welder was observed utilizing Caltrans approved Welding Procedure Specification's (WPS) ABF-WPS-D11-2044 for Flux Core Arc Welding (FCAW). The welder was observed preheating the welds prior to welding. Other welding parameters as inspected by the QC Inspector appear to be in compliance with the WPS noted above.

This QA Inspector inadvertently omitted additional information pertaining to the initial back gouging of the root weld on production welding on the corner drop-in of 12E. The back gouged area was verified for soundness and free of indications with Magnetic Particle (MT) utilizing the yoke method in conformance with ASTM E 709 and the standard of acceptance with D1.5 section 6.26.2.1. The following locations were verified on the date shown.

12E PP111.1-A1 - 8/2/12, 12E/13E - 8/3/12, 12E/13E-C1.1 - 7/17/12, 12E PP111.5-E2.1-BW3 - 9/15/12, 12E/13E-C1.1 - 7/17/12, 12E PP111.5-E2.1-BW3 - 9/15/12, 12E/13E-C1.1 - 7/17/12, 12E/13E-C1.1 - 7/PP111.5-E2.1-PS1 - 9/15/12, 12E PP112-E2.1-BW1 - 9/13/12, 12E PP112.5-E2.1-BW2 - 9/5/12, 12E PP112. 5-E2.1-PS1 - 9/8/12.

This QA observed QC Inspector William Sherwood and Salvador Merino performing welding parameter checks such as voltage, amps, electrodes and preheats throughout the day. Also noted were QC Inspectors John Pagliero and Harry Scharein performing various Non-Destructive Testing (NDT) on completed weld repairs as they became available for testing. Non-Destructive Testing methods utilized by the QC Inspectors were Visual Testing (VT), Magnetic Particle Testing (MPT) and Ultrasonic Testing Shear Wave (UTSW). QC Inspectors were observed performing inspection per applicable code and or contract criteria.

Unless otherwise noted, all work observed on this date appeared to generally comply with the contract documents.

### **Summary of Conversations:**

Conversations revelvant to work performed.





#### **Comments**

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Gary Thomas 916-764-6027, who represents the Office of Structural Materials for

# WELDING INSPECTION REPORT

(Continued Page 3 of 3)

your project.

**Inspected By:** Frey,Doug Quality Assurance Inspector

**Reviewed By:** QA Reviewer Reyes, Danny